

CLAIMS

1. A communication method that can be implemented in a communication system including at least one base station and a plurality of terminals (including a single terminal) located in a service area covered by the base station, the communication method comprising:

retransmitting including the terminal autonomously transmitting retransmission data without making a transmission request when an NAK signal indicating a 10 reception failure is returned from the base station and a transmission permitted time assigned to the terminal to which the NAK signal is returned is over.

2. The communication method according to claim 1, wherein 15 the retransmitting includes the terminal to which the NAK signal is returned autonomously transmitting the retransmission data without making the transmission request, after a predetermined time defined between the terminal and the base station has elapsed since reception of the NAK 20 signal, and

the base station starts a reception operation of the retransmission data after the predetermined time has elapsed since transmission of the NAK signal.

25 3. The communication method according to claim 2, wherein when receiving a transmission request signal from other terminal in a time from transmitting the NAK signal to the terminal to receiving the retransmission data, and when a transmission permitted time for the terminal to 30 which the NAK signal is returned is over, the base station estimates a transmission time zone for retransmission data, and delays a transmission permitted time to be assigned to the other terminal based on the estimation, not to overlap

with the transmission time zone for the retransmission data.

4. The communication method according to claim 1, wherein
the retransmitting includes setting a coding rate for
5 an error at a time of retransmission lower than a coding
rate at a time of initial transmission.

5. A terminal that builds a communication system together
with a base station, the terminal comprising:

10 an autonomous transmitting unit that autonomously
transmits retransmission data without making a transmission
request when an NAK signal indicating a reception failure
is returned from the base station and a transmission
permitted time is over.

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6. The terminal according to claim 5, wherein
the autonomous transmitting unit autonomously
transmits the retransmission data without making the
transmission request after a predetermined time defined
20 between the terminal and the base station has elapsed since
reception of the NAK signal.

7. The terminal according to claim 5, wherein
the autonomous transmitting unit sets a coding rate
25 for an error at a time of retransmission lower than a
coding rate at a time of initial transmission.

8. A base station that builds a communication system
together with a plurality of terminals (including a single
30 terminal) located in a service area covered by the base
station, the base station comprising:

a reception processor that starts a reception
operation of the retransmission data after a predetermined

time defined between the base station and the terminals has elapsed since transmission of an NAK signal indicating a reception failure.

5 9. The base station according to claim 8, further comprising:

a scheduling unit that estimates a transmission time zone for retransmission data when receiving a transmission request signal from other terminal in a time from

10 transmitting the NAK signal to a specific terminal to receiving the retransmission data and when a transmission permitted time for the terminal to which the NAK signal is returned is over, and that delays a transmission permitted time to be assigned to the other terminal based on the 15 estimation, not to overlap with the transmission time zone for the retransmission data.